ORIGINAL

TSCA NON-CONFIDENTIAL BUSINESS INFORMATION

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COMMENTS:

DOES NOT CONTAIN CBI

MR 352254

HUNTSMAN

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February 21, 2013

Via Overnight Courier

TSCA Confidential Business Information Center (7407M)
EPA East – Room 6428
US Environmental Protection Agency
1201 Constitution Ave, NW
Washington, DC 20004-3302
Attention: TSCA Section 8(e) Coordinator

Preliminary Results from a Combined Repeated Dose Toxicity Study with the Reproductive/Development Toxicity Screening Testing in Rats

Dear Sir or Madam:

Huntsman has received a draft final report from a Reproduction/Developmental Toxicity Screening Test in Rats conducted according to OECD Guideline 421, using a Huntsman product generically described as, "Substituted phenyl amino substituted triazine reaction product with naphthalenesulfonic acid azo substituted phenyl substituted naphthalenesulfonic acid amino compound," covered under US EPA Accession Number 242343, (assigned to PMN P07-0164). This study was conducted by WIL Research Europe B.V. in the Netherlands. The results of this screening study indicate that this test substance is considered to be a developmental and reproductive toxicant at doses that are not maternally or paternally toxic.

Huntsman is submitting these preliminary study results pursuant to Section 8(e) of the Toxic Substances Control Act (TSCA). Huntsman has not made a determination as to whether a significant risk of injury to human health is actually presented by these findings.

Study Design:
The test substance, dissolved in water, was administered to four groups of 10 male and 10 female young Wistar rats (F0 parental generation) via daily gavage. The dose levels used in this study were 0, 100, 300 and 1000 mg/kg/day. About 2 weeks after the beginning of treatment, F0 animals were mated to produce a litter (F1 generation). Mating pairs were from the same treatment group. The F0 males were sacrificed following the mating period. After the gestation period, the pregnant females gave birth and the offspring further developed until postnatal day (PND) 4. The study was terminated with the sacrifice of the F1 animals on PND 4 and the sacrifice of the lactating dams shortly thereafter. The parental F0 animals were fully evaluated for signs of toxicity and the F1 litters and pups were evaluated for developmental and reproductive findings.

Systemic Toxicity:
No signs of toxicity were observed at the highest dosage tested, 1000 mg/kg/day. There were no treatment-related findings in the histopathological examination of the reproductive organs of

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the treated F0 males or females. Spermatogenic staging profiles and female reproductive tract cycling were considered normal.

Reproductive toxicity:
In comparison to the untreated control group, the following reproductive parameters were affected at 1000 mg/kg/day:

- Decreased fertility, conception and gestation indices, and
- Decreased numbers of corpora lutea and implantation sites. Of 10 mated females in this treatment group, only one female was pregnant with a significantly reduced number of implantations. This female did not have any live births.

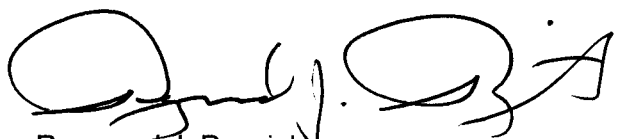
No other reproductive effects were observed in any other dose group.

Developmental Toxicity:
An analysis of developmental toxicity at 1000 mg/kg/day could not be made, since only one mated female showed implantations, and there were no pups available at birth for evaluation. At 300 mg/kg/day, the mean number of living pups at time of birth was slightly decreased, but the finding was not statistically significant. No other effects on pup development were observed.

Study Conclusion:
Based on results of this screening study, this material is considered to be a developmental and reproductive toxicant at doses that are not maternally or paternally toxic. The No Observed Adverse Effect Level (NOAEL) for male and female F0 rats exposed to this material was greater than 1000 mg/kg/day. The NOAEL for reproductive and developmental toxicity is considered to be 300 mg/kg/day.

As always, if I can provide any additional information on the above study, please call me at (281) 719-3017, or contact me via e-mail at: Ray_Papciak@Huntsman.com.

Regards,



Raymond J. Papciak
Manager, Product Safety

From: (281) 719-3028
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Huntsman Corporation
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THE WOODLANDS, TX 77381

Origin ID: MIFA

FedEx Express

J1310121219O326

Ship Date. 21FEB13
ActWgt: 0.5 LB
CAD: 101155237/INET3370

Delivery Address Bar Code

SHIP TO: (202) 564-8940 BILL SENDER

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TRK# 0201 **7948 0465 9454**

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